

# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
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Application Serial Number: 10/563,277A  
Source: 1FW9  
Date Processed by STIC: 4/20/07

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## RAW SEQUENCE LISTING

DATE: 04/20/2007

PATENT APPLICATION: US/10/563,277A

TIME: 13:56:44

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04202007\J563277A.raw

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3 <110> APPLICANT: Institut National de la Recherche Agronomique (INRA)
5 <120> TITLE OF INVENTION: Method of producing double low restorer lines of Brassica
6   napus having a good agronomic value
8 <130> FILE REFERENCE: D21413
10 <140> CURRENT APPLICATION NUMBER: US 10/563,277A
11 <141> CURRENT FILING DATE: 2006-01-04
13 <160> NUMBER OF SEQ ID NOS: 14
15 <170> SOFTWARE: PatentIn version 3.2
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 248
19 <212> TYPE: DNA
20 <213> ORGANISM: Brassica napus
22 <220> FEATURE:
23 <223> OTHER INFORMATION: PGIo1 marker
25 <400> SEQUENCE: 1
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27 acatgtgggt aacttaacag ggctccggct gttgcaaaac acatggttgc tgtcagcact      120
28 aatcttgcgg tatgaatttg tgattaaatt tgtttgtttg tgactctttc ttcattgttc      180
29 gttttcgtac aataaaccga atgtataatc tttttacaaa ctgaattttc taccgggtct      240
30 gatgtaca                                     248
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 979
35 <212> TYPE: DNA
36 <213> ORGANISM: Brassica napus
38 <220> FEATURE:
39 <223> OTHER INFORMATION: PGI-UNT R2000 marker
41 <400> SEQUENCE: 2
42 tcatttgatt gttgcgcctg tcgccttggt gtgttatgat gaatgaacag cagtcattta      60
43 acatgtgggt aacttaacag ggctccggct gttgcaaaac acatggttgc tgtcagcact      120
44 aatcttgcgg tatgaatttg tgattaaatt tgtttgtttg tgactctttc ttcattgttc      180
45 gttttcgtac aataaaccga atgtataatc tttttacaaa tgaattttct accgggtctg      240
46 atgtacaatg ctagtctcca tgttcttggg gatcatgatt tattttctac atgtattcag      300
47 acagtacaga agaaagtgtt caaaactctg gatgttttaa tttacagtta gtggagaagt      360
48 tcggcattga tccgaacaat gcatttgcatt tttgggactg ggttggtgga aggtacagtg      420
49 gtaagtgtt gtttatttgg ttgtataaat ttctcgtcca tttccgcttg cttagtgtat      480
50 aactgaaatt cttttgcagt ttgcagtgtt gttggagtct taccattgtc tctacagtat      540
51 ggcttctctg tgggtgagaa gtacggtacc ttctacttta tcagccatct cataaaatgt      600
52 cttaggcata ttctttctat tttatttccc tcttaatgat ttcttctttt ttttattgca      660
53 ttcccgtttt attttcaaaa gttgttactg tctctaaatc aagaagaaac cttcttagta      720
54 gatccagctg atattcagcc ttttttaaag tggactgcag gtttttaaag gggagcttca      780
55 agcattgata agcatttcca gtccacaccg tttgagaaga atatacccggt gagttgcatt      840
56 agttgtgtga ttatacagtt ttcttgtctt tttgctatgt ccatcaacac tagagattcg      900
57 tgaagttatt agtgtagtca acgcataggg agaggtgatt ggtgactttt ggacgatttc      960

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58 aggtgcttta gggttattg                                     979
61 <210> SEQ ID NO: 3
62 <211> LENGTH: 866
63 <212> TYPE: DNA
64 <213> ORGANISM: Brassica napus
66 <220> FEATURE:
67 <223> OTHER INFORMATION: PGI-int R2000 marker
69 <400> SEQUENCE: 3
70 cagcactaat cttgcggtat gaatttgtga ttaaatttgt ttgtttgtga ctctttcttc      60
71 attgttcggt ttcgtacaat aaaccgaatg tataatcttt tacaaactga attttctacc      120
72 gggctctgat tacaatgcta gtctccatgt tcttggggat catgatttat tttctacatg      180
73 tattcagaca gtacagaaga aagtgttcaa aactctggat gttttaattt acagtttagtg      240
74 gagaagttcg gcattgatcc gaacaatgca tttgcatttt gggactgggt tgggtggaagg      300
75 tacagtggta agtgcttggt tatttgggtg tataaatttc tcgtccattt ccgcttgctt      360
76 agtgtataac tgaattcttt ttgcagtttg cagtgcgtgt ggagtcttac cattgtctct      420
77 acagtatggc ttctctgtgg ttgagaagta cggtaccttc tactttatca gccatctcat      480
78 aaaatgtctt aggcataattc tttctatttt atttcctct taatgatttc ttcttttttt      540
79 tattgcattc ccgtttttatt ttcaaaagtt gttactgtct ctaaatcaag aagaaacctt      600
80 cttagtagat ccagctgata ttccagccttt tttaaattgg actgcaqgtt tttaaagggg      660
81 agcttcaagc attgataagc atttccagtc cacaccgttt gagaagaata taccctgtag      720
82 ttgcattagt tgtgtgatta tacagttttc ttgtcttttt gctatgtcca tcaacactag      780
83 agattcgtga agttattagt gtagtcaacg catagggaga ggtgattggg gacttttgga      840
84 cgatttcagg tgcttttaggg ttattg                                     866
87 <210> SEQ ID NO: 4
88 <211> LENGTH: 957
89 <212> TYPE: DNA
90 <213> ORGANISM: Brassica napus
92 <220> FEATURE:
93 <223> OTHER INFORMATION: BolJon marker R2000
95 <400> SEQUENCE: 4
96 gatccgattc ttctcctggt gagatcagct ccaaacatca aacaacttgt acacaaatat      60
97 ctttacttgc taaatggaac atgacaagag atagaaaatc ttgctcatag tattgtacaa      120
98 gggataacag tgtagaaaac aaaccgtctg taagattttc tccttgatcc tctcacttaa      180
99 ccagtaggcg tttttcacat tgaagcgcat atctactttg gtattcactg aataaaaaaa      240
100 gaaagctggg aacatgtgaa ggatatacaa gcattgatac accaagtagt cacaaactac      300
101 attataaagg tcagaccttt gttcacattc tggcctccag gaccaccgct tctagcaaag      360
102 ttaagcgtaa catggtctgc acgtatacaa atgaaaatgt ttctatcaaa atcctataaa      420
103 atagagctct ataacattgt cgatacatag tttcactaac tctgcaagta ctaaacacat      480
104 atacaaacaa aactatgcga acagatcaaa actactacag aacacagttc tatgacactg      540
105 tcgatagtaa catcctctgc aagtaccaa gagatagcaa atgaaactat gtaaacaat      600
106 caaaattcta aatttctcca tcacaaggac ctacagaata gagttatcat aacattttct      660
107 gtaaataattt ccatcaaaat gactagagaa cagagttctt ataacattat ctgtaaattg      720
108 tccaacaaaa cactacata gcagagttct tataacattg tctgtaaattg tccaatcaaa      780
109 accactacag aacaaagctc ctataacatt gtttatacaa agtttacta aatctacaaa      840
110 ctttccccgt aaatgagctt aatatcacc aaagatgttt caatcagata aagagtacga      900
111 catcggtttg agattagaac aaactgaaac ttacgtagag tgatttgagg agtaggc      957
114 <210> SEQ ID NO: 5
115 <211> LENGTH: 672
116 <212> TYPE: DNA

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117 <213> ORGANISM: Brassica napus
119 <220> FEATURE:
120 <223> OTHER INFORMATION: CP418L marker R2000
122 <400> SEQUENCE: 5
123 aattttctcca tcacaaggac ctacagaata gagttatcat aacattttct gtaaataattt      60
124 ccatcaaaat gactagagaa cagagttctt ataacattat ctgtaaatgt tccaacaaaa      120
125 ccactacata gcagagttct tataacattg tctgtaaatg tccaatcaaa accactacaq      180
126 aacaaagctc ctataacatt gtttatacaa agtttacta aatctacaaa ctttccccgt      240
127 aaatgagctt aatatcacc aaagatgttt caatcagata aagagtaacg acatcgtttt      300
128 gagattagaa caaactgaaa cttacgtaga gtgatttgag gagtaggctc gttgccagca      360
129 gagctagctc tctcctccgc ctcatgaagc atctgttgca cctgagacaa ccgtgacgaa      420
130 actttccgat caccgccacc agaattcgac gccgcgcac ggaaggatcc gaatcgggaa      480
131 ctgagtgaac ccgagcgatc ccgggagtg gacggagcga tgggaaaaga gagtggcacg      540
132 atttcgacga agagtggaa aggagagggt ggtggataaa ctgcggtatg atcaagttcg      600
133 tcatcgtcct gattgccgcc attttttttg tcagggcgct ctgtggctta gaagtttccg      660
134 atgtcaatga ac                                     672
137 <210> SEQ ID NO: 6
138 <211> LENGTH: 20
139 <212> TYPE: DNA
140 <213> ORGANISM: artificial sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: PGIol U primer
145 <400> SEQUENCE: 6
146 tcatttgatt gttgcgcctg                                     20
149 <210> SEQ ID NO: 7
150 <211> LENGTH: 23
151 <212> TYPE: DNA
152 <213> ORGANISM: artificial sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: PGIol L primer
157 <400> SEQUENCE: 7
158 tgtacatcag acccggtaga aaa                                     23
161 <210> SEQ ID NO: 8
162 <211> LENGTH: 21
163 <212> TYPE: DNA
164 <213> ORGANISM: artificial sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: PGIint U primer
169 <400> SEQUENCE: 8
170 cagcactaat cttgcggtat g                                     21
173 <210> SEQ ID NO: 9
174 <211> LENGTH: 21
175 <212> TYPE: DNA
176 <213> ORGANISM: artificial sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: PGIint L primer
181 <400> SEQUENCE: 9
182 caataaccct aaaagcacct g                                     21
185 <210> SEQ ID NO: 10

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186 <211> LENGTH: 20
187 <212> TYPE: DNA
188 <213> ORGANISM: artificial sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: PGIol U primer
193 <400> SEQUENCE: 10
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197 <210> SEQ ID NO: 11
198 <211> LENGTH: 21
199 <212> TYPE: DNA
200 <213> ORGANISM: artificial sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: PGIint L primer
205 <400> SEQUENCE: 11
206 caataaccct aaaagcacct g 21
209 <210> SEQ ID NO: 12
210 <211> LENGTH: 21
211 <212> TYPE: DNA
212 <213> ORGANISM: artificial sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: BolJon U primer
217 <400> SEQUENCE: 12
218 gatccgattc ttctcctggt g 21
221 <210> SEQ ID NO: 13
222 <211> LENGTH: 21
223 <212> TYPE: DNA
224 <213> ORGANISM: artificial sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: BolJon L primer
229 <400> SEQUENCE: 13
230 gcctactcct caaatcactc t 21
233 <210> SEQ ID NO: 14
234 <211> LENGTH: 21
235 <212> TYPE: DNA
236 <213> ORGANISM: artificial sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: pCP418 L primer
241 <400> SEQUENCE: 14
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**VERIFICATION SUMMARY**

DATE: 04/20/2007

PATENT APPLICATION: US/10/563,277A

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